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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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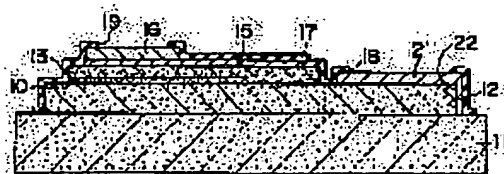
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## (54) NITRIDE SEMICONDUCTOR ELEMENT

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a nitride semiconductor element, in which an electric current can be injected uniformly into a light-emitting layer (or light-receiving layer), and which can be improved in luminous efficiency (or light-receiving efficiency).

**SOLUTION:** A nitride semiconductor element is provided with a first semiconductor layer 12 which is formed on a substrate 11 and composed of an n-type nitride semiconductor, a second semiconductor layer 13 formed on the layer 12 with an operating region in between and composed of a p-type nitride semiconductor, a positive electrode 15 formed on the layer 13, and a negative electrode 21 formed on the surface of the layer 12 exposed by removing a part of the layer 13. The exposed surface of the first semiconductor layer 12 which is exposed so as to form the negative electrode 21 continuously exposed from a part of its outer peripheral side face, and the negative electrode 21 is formed continuously from the exposed surface to the continuous outer peripheral side face of the first semiconductor layer 12.



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